



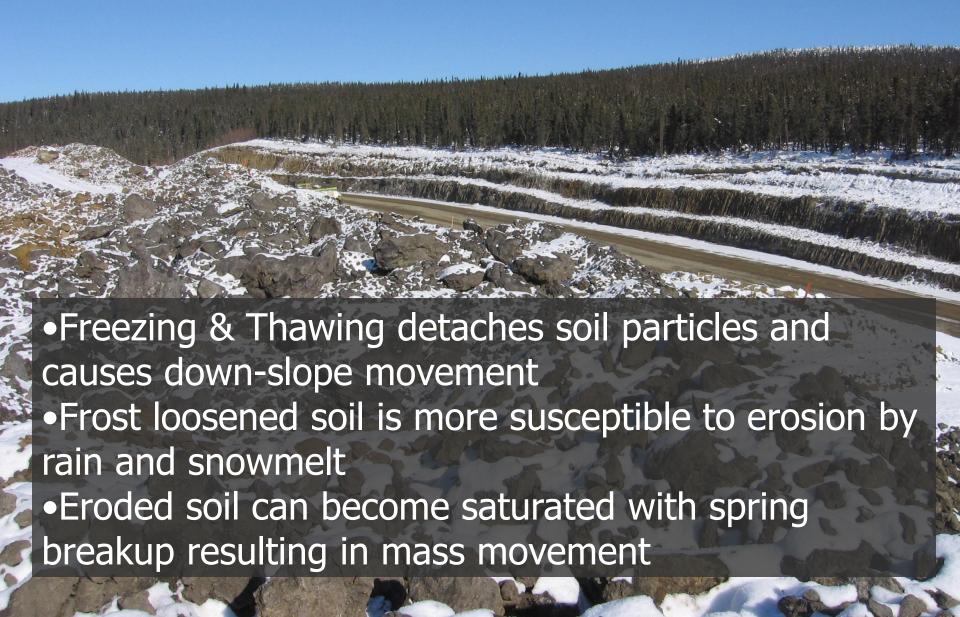








## Thermal Degradation / Freeze Thaw Erosion













































## Provide a defined perimeter in the plans

Kotzebue, AK















- Species / Climate
- Germination & Establishment
- Timing & Field Mortality











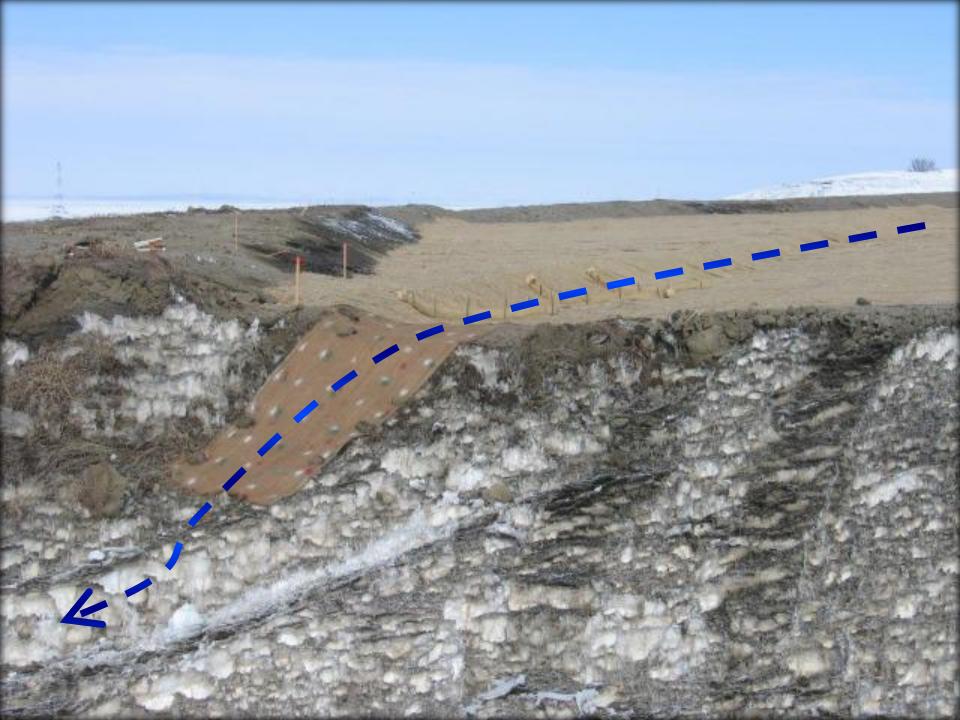




























Nine Mile Hill Reconstruction













Waste pile stabilization









## Early Morning in Bethel Alaska Pop. 6400





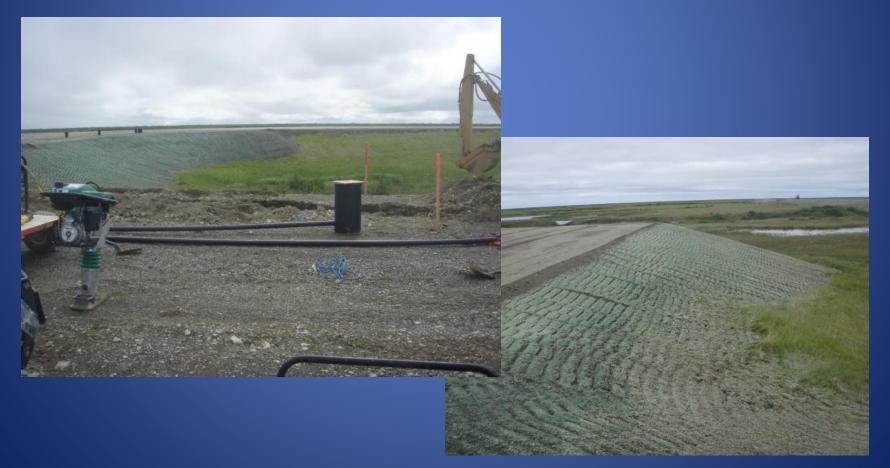
## Here's the catch...

- Sequence for seeding was not typical.
- Instead of temporary seeding, concurrent embankment and permanent seeding operations were conducted.



## Standard Operating Procedure

Seeding was a normal operation conducted as needed throughout the active construction period.































## Pipe Slope Drains

BMP WA C-204 OR RC-1 AK - 3























## Changing Behavior



Management Measures - Good construction management is as important as physical practices for erosion and sediment control, and there is generally little or no cost involved.



